

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-087029

(43)Date of publication of application : 28.03.2000

(51)Int.Cl. C09K 11/08
C03C 17/25
C09K 11/56
H05B 33/10
H05B 33/14
H05B 33/26

(21)Application number : 11-156682

(71)Applicant : PLANAR SYST INC

(22)Date of filing : 03.06.1999

(72)Inventor : HAERKOENEN GITTE
KERVINEN TOMI
SOININEN ERKKI
TORNQUIST RUNAR
VASAMA KIRSI
GLANZ MARIO
SCHUMANN HERBERT

(30)Priority

Priority number : 98 981262 Priority date : 03.06.1998 Priority country : FI

(54) GROWING OF THIN FILM ELECTROLUMINESCENCE STRUCTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To grow an SrS phosphor layer doped, with cerium by an atomic layer epitaxy method, exhibiting improved uniformity of luminance by employing, as a precursor of a cerium dopant an organic metal cerium compound containing a cyclopentadienyl type ligand.

SOLUTION: There is employed an organic metal cerium compound containing at least one cyclopentadienyl type ligand, preferably a compound represented by the formula: CeCp_nR_{3-n}. In the formula, R is hydrocarbyl; (n) is 1-3; Cp is the formula: C₅R₁xR₂yH_{5-z}; (x) and (y) are each 1-5; x+y is (z) and z≤5; and R₁₋₂ are each a lower alkyl. Preferably, a Ce precursor is one comprising a compound selected from tricyclopentadienyl derivatives and alkyl-substituted tricyclopentadienyl derivatives of cerium, and further preferably one selected from tetramethyl- and isopropyl-substituted Ce-tricyclopentadienyl compounds.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]